

SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded)

Conformity to RoHS Directive

VLCF Series VLCF4024-2

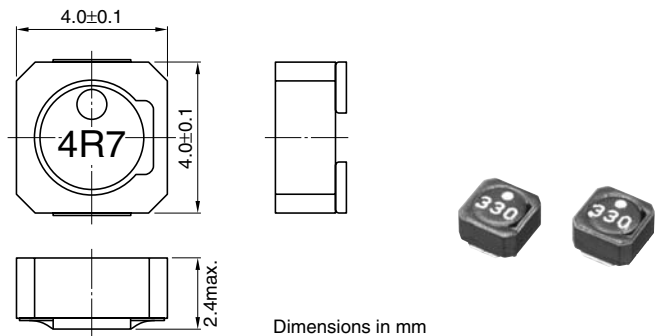
FEATURES

- Miniature size
Mount area: 4×4mm
Height: 2.4mm max.
- Generic use for portable DC to DC converter line
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and reel package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS

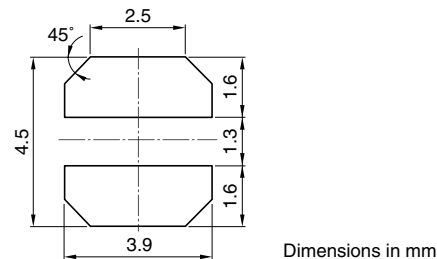
DC to DC converters for DVC, DSC, PDA, MD, LCD displays, HDDs, cellular phones, etc.

SHAPES AND DIMENSIONS



Dimensions in mm

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μH)	Inductance tolerance	Test frequency (kHz)	DC resistance(Ω)		Rated current(A)*	
				max.	typ.	Based on inductance change max.	Based on temperature rise typ.
VLCF4024T-1R2N2R4-2	1.2	±30%	100	0.032	0.027	2.46	3.09
VLCF4024T-1R6N2R1-2	1.6	±30%	100	0.039	0.035	2.10	2.61
VLCF4024T-2R2N1R7-2	2.2	±30%	100	0.043	0.039	1.76	2.43
VLCF4024T-3R3N1R7-2	3.3	±30%	100	0.068	0.061	1.60	1.96
VLCF4024T-4R7N1R4-2	4.7	±30%	100	0.087	0.075	1.43	1.76
VLCF4024T-6R8N1R1-2	6.8	±30%	100	0.116	0.101	1.15	1.54
VLCF4024T-100MR90-2	10	±20%	100	0.136	0.119	0.90	1.37
VLCF4024T-150MR80-2	15	±20%	100	0.198	0.172	0.80	1.05
VLCF4024T-220MR65-2	22	±20%	100	0.332	0.28	0.65	0.90
VLCF4024T-330MR55-2	33	±20%	100	0.438	0.38	0.55	0.74
VLCF4024T-470MR44-2	47	±20%	100	0.644	0.56	0.44	0.64
VLCF4024T-101MR30-2	100	±20%	100	1.21	1.05	0.30	0.48

* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

- Operating temperature range: -40 to +105°C (Including self-temperature rise)

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.